

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-33. (cancelled) without prejudice.

34. (New) A telecommunication system, comprising:

a circuit-based wireless telephony network providing wireless access to the system wherein said wireless telephony network comprises a first protocol engine and a first database;

a packet-based Internet telephony network in communication with said wireless telephony network, for providing Internet telephony access to the system wherein said Internet telephony network comprises a second protocol engine and a second database; and

a gateway controller in communication with said wireless telephony network and said Internet telephony network;

wherein said wireless telephony network is adapted for receiving a 1st signal for initiating communication between said wireless telephony network and said Internet telephony network, and for detecting a circuit-based network communication at the time of initialization, and for sending a 2nd signal for obtaining the location of said gateway controller,

wherein said Internet telephony network is adapted for receiving said 2nd signal and for sending a 3rd signal for providing the location of said gateway controller,

wherein said wireless telephony network is further adapted for receiving said 3rd signal and for providing a 4th signal for finding and connecting to said gateway controller, and

wherein said gateway controller is adapted for receiving said 4th signal and for providing a 5th signal for connection with said Internet telephony network.

35. (New) A method for providing telecommunication in a system between a circuit-based wireless telephony network for providing wireless access to the system, wherein the wireless telephony network comprises a first protocol engine and a first database, a packet-based Internet telephony network in communication with the wireless telephony network for providing Internet telephony access to the system wherein the Internet telephony network comprises a second protocol engine and a second database, and a gateway controller in communication with the wireless telephony network and the Internet telephony network, comprising:

receiving a 1st signal at the wireless telephony network for initiating communication between the wireless telephony network and said Internet telephony network,

detecting a circuit-based network communication during said initiation step by the wireless telephony network,

sending a 2nd signal for obtaining the location of the gateway controller by the wireless telephony network,

receiving the 2nd signal at the Internet telephony network,

sending a 3rd signal for providing the location of the gateway controller by the Internet telephony network,

receiving said 3rd signal at the wireless telephony network,

sending a 4th signal by the wireless telephony network for finding and connecting to said gateway controller,

receiving said 4th signal at the gateway controller, and

sending a 5th signal by the gateway controller for connection with the Internet telephony network.

36. (New) A telecommunication system comprising:

a circuit-based wireless telephony network providing wireless access to the system wherein said wireless telephony network comprises a first protocol engine and a first database, wherein said circuit-based wireless telephony network comprises a Mobile Telecommunications System;

a packet-based Internet telephony network in communication with said wireless telephony network for providing Internet telephony access to the system wherein said Internet telephony network comprises a second protocol engine and a second database; and

a gateway controller for providing an interface between at least said wireless telephony network and said Internet telephony network, wherein said interface comprises a signal gateway and voice data communications, wherein said gateway controller is controlled by a call processing engine and is configured to perform vocoding functions for translating between different data coding schemes;

wherein said wireless telephony network is adapted for receiving a 1st signal for initiating communication between said wireless telephony network and said Internet telephony network, and for detecting a circuit-based network communication at the time of initialization, and for sending a 2nd signal for obtaining the location of said gateway controller,

wherein said Internet telephony network is adapted for receiving said 2nd signal and for sending a 3rd signal for providing the location of said gateway controller,

wherein said wireless telephony network is further adapted for receiving said 3rd signal and for providing a 4th signal for finding and connecting to said gateway controller, and

wherein said gateway controller is adapted for receiving said 4th signal and for providing a 5th signal for connection with the Internet telephony network.

37. (New) The system of 36, wherein said Mobile Telecommunications System comprises a Global System for Mobile Communications network.

38. (New) The system of 36, wherein said Mobile Telecommunications System comprises a Universal Mobile Telecommunications System network.

39. (New) The system of 36, wherein said interface further includes a packet-based mobile switching center.

40. (New) The system of 36, wherein said interface further includes one or more circuit-based base station controllers.

41. (New) The system of 36, wherein said signal gateway is selected from the group comprising a data signal transport gateway or a data signal transport gateway or a media gateway.

42. (New) The system of 36, wherein the telecommunication system does not require utilization of a Public Switched Telephone Network.

43. (New) The system of 36, wherein said Internet telephony network comprises an Internet Protocol network, a Session Initiation Protocol network or a H.323 protocol network.

44. (New) A method for telecommunications between

a) a circuit-based wireless telephony network providing wireless access comprising a Mobile Telecommunications System, wherein the wireless telephony network comprises a first protocol engine and a first database,

b) a packet-based Internet telephony network in communication with the wireless telephony network for providing Internet telephony access, wherein the Internet telephony network comprises a second protocol engine and a second database; and

c) a gateway controller for providing an interface between at least said wireless telephony network and said Internet telephony network, wherein said interface comprises a signal gateway and voice data communications, wherein said gateway controller is controlled by a call

processing engine and is configured to perform vocoding functions for translating between different data coding schemes, comprising:

receiving a 1<sup>st</sup> signal at the wireless telephony network for initiating communication between the wireless telephony network and said Internet telephony network,

detecting a circuit-based network communication during said initiation step by the wireless telephony network,

sending a 2<sup>nd</sup> signal for obtaining the location of the gateway controller by the wireless telephony network,

receiving the 2<sup>nd</sup> signal at the Internet telephony network,

sending a 3<sup>rd</sup> signal for providing the location of the gateway controller by the Internet telephony network,

receiving said 3<sup>rd</sup> signal at the wireless telephony network,

sending a 4<sup>th</sup> signal by the wireless telephony network for finding and connecting to said gateway controller,

receiving said 4<sup>th</sup> signal at the gateway controller, and

sending a 5<sup>th</sup> signal by the gateway controller for connection with the Internet telephony network.

45. (New) The method of 44, wherein said Mobile Telecommunications System comprises a Global System for Mobile Communications network.

46. (New) The method of 44, wherein said Mobile Telecommunications System comprises a Universal Mobile Telecommunications System network.

47. (New) The method of 44, wherein said interface further includes a packet-based mobile switching center.

48. (New) The method of 44, wherein said interface further includes one or more circuit-based base station controllers.

49. (New) The method of 44, wherein said signal gateway is selected from the group comprising a data signal transport gateway or a data signal transport gateway or a media gateway.

50. (New) The method of 44, wherein the telecommunication system does not require utilization of a Public Switched Telephone Network.

51. (New) The method of 44, wherein said Internet telephony network comprises an Internet Protocol network, a Session Initiation Protocol network or a H.323 protocol network.